Index of Claims

| <b>Applicati</b> | on/Cor | itrol l | Vo. |
|------------------|--------|---------|-----|
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09/446,641

Examiner
Tracy Dove

Applicant(s)/Patent under Reexamination

HATAZAWA ET AL.

Art Unit

1745

| √ | Rejected |
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| _ | Allowed  |

| - | (Through numeral)<br>Cancelled |
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| ı | Interference |

| A | Appeal   |
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| Cli      | aim Date |                 |                 |          |          | 1            | Claim Date   |                |                   |  |          |          | 1         | CI       | aim      | Date            |          |          |              |              |         |         |       |            |          |          |              |           |          |          |                    |          |          |
|----------|----------|-----------------|-----------------|----------|----------|--------------|--|----------------|-------------------|--|----------|----------|-----------|----------|----------|-----------------|----------|----------|--------------|--------------|---------|---------|-------|------------|----------|----------|--------------|-----------|----------|----------|--------------------|----------|----------|
| Final    | Original | 3/66            |                 |          |          |              |  |                |                   |  |          | Final    | Original  |          |          |                 |          |          |              |              |         |         | Final | Original   |          |          |              |           |          |          |                    |          |          |
| "        | Ō        | 3               |                 |          |          |              |  |                |                   |  |          | -        | ō         |          |          |                 |          |          |              |              |         |         | -     | ō          |          |          |              |           |          |          | ı                  |          |          |
|          | 1        | $\Box$          |                 |          |          |              |  |                |                   |  |          |          | 51        |          |          |                 |          |          |              |              |         |         |       | 101        |          | $\Box$   | 1            |           |          |          |                    |          |          |
|          | 2        | Ŀ               |                 |          |          |              | _  | <u> </u>       |                   |  |          |          | 52        |          |          | Ш               |          |          |              |              | 丄       |         |       | 102        |          |          |              |           |          |          | $\square$          |          |          |
| L        | 3_       | Ŀ               | $\dashv$        | 4        |          | L.           | _  | <u> </u>       | _                 | ↓_   | 4        |          | 53        |          |          | Щ               |          | _        | 4            | 4            |         |         |       | 103        | 4        | 4        | $\downarrow$ | _         | _        |          | $\dashv$           | _        | _        |
| -        | 4        | Ŀ               |                 | $\dashv$ |          |              | _  |                | ┞                 | ⊢  | 4        |          | 54        |          | _        | $\sqcup$        | 4        | $\dashv$ | 4            | -            |         |         |       | 104        | _        | 4        | 4            | _         |          | _        | $\dashv$           |          |          |
|          | 5        | Ŀ               | $\dashv$        | ┥        | _        |              | -  | ├              | ⊢                 | ⊢  | ╢        | <u> </u> | 55<br>56  |          | -        | $\vdash$        | $\dashv$ | $\dashv$ | +            | +            | +       |         |       | 105        | $\dashv$ | +        | +            | -         | $\dashv$ | -        | $\dashv$           | $\dashv$ | $\dashv$ |
|          | 6<br>7   | -               | -               | $\dashv$ |          | -            | -  | -              | ┢                 | ╁╾   | 1        |          | 57        |          |          | $\vdash$        | $\dashv$ | -        | -            | +            | ┰       |         |       | 106<br>107 |          | +        | +            | -         | $\dashv$ |          | $\dashv$           |          | $\dashv$ |
|          | 8        |                 | $\dashv$        | ┪        |          | $\vdash$     | H  | ╁              | ┢                 | ╁  |          |          | 58        | H        | -        |                 | $\dashv$ |          | -+           | +            | +       |         |       | 108        | $\dashv$ | -        | +            | $\dashv$  | $\dashv$ | -        | $\dashv$           | $\dashv$ | $\dashv$ |
| -        | 9        |                 | $\dashv$        | ᅥ        | _        | $\vdash$     |  | ┢              | ┢                 | ╁╌╴  | 1        |          | 59        |          |          | $\vdash$        | $\dashv$ | $\dashv$ | $\dashv$     | +            | +-      | ł       |       | 109        | $\dashv$ | +        | ╁            | ┪         | $\dashv$ |          | $\dashv$           | -        | $\dashv$ |
| 1        | 10       | =               | $\dashv$        | $\dashv$ | _        |              |  | ┢              | <del> </del>      | <del>                                     </del> | ı        |          | 60        |          |          |                 |          |          | 十            | _            | $\top$  |         |       | 110        | _        | -        | +            | 7         | $\dashv$ |          | $\neg \uparrow$    | _        | $\dashv$ |
| <u> </u> | 11       | -               | $\dashv$        | ヿ        |          | $\vdash$     |  | Г              | <u> </u>          |  | 1        |          | 61        |          |          |                 |          |          | 一            | _            | $\top$  | 1       |       | 111        |          |          | +            | $\exists$ | ╗        |          | $\dashv$           | 寸        | ╡        |
|          | 12       | -               | $\neg$          | $\neg$   |          |              |  | Г              | T                 | $\vdash$   | 1        |          | 62        | П        |          |                 |          | $\neg$   | ┪            |              |         | 1       |       | 112        |          |          | $\top$       |           | 寸        |          | $\dashv$           | 寸        |          |
|          | 13       | -               | ·               |          |          |              |  |                |                   |  | 1        |          | 63        |          |          |                 |          |          |              | $\Box$       |         |         |       | 113        |          |          |              |           |          |          |                    | Ī        |          |
| 2        | 14       | =               |                 | $\Box$   |          | 匚            |  | 匚              |                   |  |          |          | 64        |          |          |                 |          |          | $\Box$       | $oxed{\Box}$ |         | ]       |       | 114        |          |          | $\prod$      |           |          |          |                    |          |          |
| 3        | 15       | =               | $\sqcup$        | _        |          | <u> </u>     | L  | L              | <u> </u>          | <u> </u>   |          |          | 65        |          | L        |                 |          | _        |              |              |         |         |       | 115        |          |          | _ _          |           |          |          |                    |          | _        |
| 4        | 16       | =               | $\sqcup$        | 4        |          |              | _  | L.             | ┞                 | ╙  |          |          | 66        | L.       |          |                 |          |          | _            | $\perp$      |         |         |       | 116        |          |          | $\perp$      | $\perp$   | _        |          | $\dashv$           |          | _        |
| 5        | 17       | =               | $\perp$         | 4        |          |              |  |                | ╙                 | ┖  |          |          | 67        | <u> </u> |          |                 | _        | _        | 4            | _            | $\perp$ |         |       | 117        | _        | 4        | $\perp$      | 4         | _        |          | _                  | _        |          |
|          | 18       | -               | $\vdash$        | 4        |          | <u> </u>     | <u> </u>   | <u> </u>       | <u> </u>          |  |          |          | 68        | _        |          |                 | _        |          | $\perp$      | _            | _       |         |       | 118        |          | _        | 4            | 4         | _        |          | $\dashv$           | _        |          |
| ├        | 19       | -               | $\dashv$        | $\dashv$ | _        | _            | <u> </u>   | <u> </u>       | ├_                | ╁  |          | <u> </u> | 69        |          |          | ${oxed{H}}$     | $\dashv$ | $\dashv$ |              |              |         |         |       | 119        |          |          | -            | 4         |          |          |                    |          | $\dashv$ |
|          | 20       | ٠               | $\dashv$        | $\dashv$ | _        | <del> </del> | H  | ⊢              | ⊨                 | ╀╌   |          | <u> </u> | 70        | -        |          | $\vdash \vdash$ | ᅴ        |          | $\dashv$     | +            | +       |         |       | 120        | $\dashv$ |          | +            | 4         |          | $\dashv$ | $\dashv$           | -        | $\dashv$ |
| -        | 21<br>22 | -               |                 | -        |          | _            | -  | -              |                   | ╌  | ł        | -        | 71<br>72  | -        | _        | $\vdash$        | -        | -        | $\dashv$     | +            |         | ł       |       | 121<br>122 | $\dashv$ | $\dashv$ | +            | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$ | $\dashv$ |
| $\vdash$ | 23       | -               | +               | $\dashv$ | -        | ├            | ⊢  | -              | ╁                 | $\vdash$   |          |          | 73        | H        |          | $\vdash$        | $\dashv$ | $\dashv$ | +            | +            | +       | 1       | -     | 123        | $\dashv$ | +        | +            | +         | -        | $\vdash$ | $\dashv$           | $\dashv$ | $\dashv$ |
| -        | 24       |                 | $\vdash$        | $\dashv$ | _        | $\vdash$     | $\vdash$   | ╁              | ┢┈                | ╁─   | 1        |          | 74        | -        | $\vdash$ |                 |          | -+       | +            | +            | +       |         |       | 124        | $\dashv$ | $\dashv$ | +            | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$ | $\dashv$ |
|          | 25       | -               | $\dashv$        | -        | -        | $\vdash$     | <del> </del>   |                | ł -               | ╁┈   | 1        |          | 75        | -        | $\vdash$ | $\dashv$        | $\dashv$ | 一        | 十            | +            | +       | ł       |       | 125        | $\dashv$ | $\dashv$ | +            | $\dashv$  |          | $\dashv$ | $\dashv$           | $\dashv$ | ㅓ        |
|          | 26       | -               | $\neg \uparrow$ | ┪        |          |              | $\vdash$   | 1              |                   | t  | 1        |          | 76        | _        |          | T               | $\neg$   | 7        | 十            | 十            | $\top$  | liii    |       | 126        |          | 十        | +            | 7         | _        | $\dashv$ |                    |          |          |
|          | 27       | -               |                 | ┪        |          | Г            | <del>                                     </del>     |                | T                 | T  |          |          | 77        |          |          | $\Box$          |          |          | 一            | 十            |         |         |       | 127        | $\neg$   | +        | +            | 寸         |          |          | $\exists$          | 一        | ヿ        |
|          | 28       | -               |                 | T        |          |              | Π  |                |                   | T  |          |          | 78        |          |          |                 |          |          |              | $\top$       |         |         |       | 128        | $\neg$   | $\top$   | $\top$       | $\exists$ | ヿ        |          | $\neg$             | $\neg$   |          |
|          | 29       | -               |                 |          |          |              |  |                |                   |  |          |          | 79        |          |          |                 |          |          |              |              | ĺ       |         |       | 129        |          |          |              |           |          |          |                    |          |          |
|          | 30       |                 |                 |          |          |              |  |                |                   |  |          |          | 80        |          |          |                 |          |          |              |              |         |         |       | 130        |          |          |              |           |          |          |                    |          |          |
| <b> </b> | 31       |                 |                 | _        | _        |              | _  | _              |                   | 辶  |          |          | 81        |          |          | Ш               | _        |          | $\perp$      |              |         |         |       | 131        | $\Box$   | $\perp$  | $\perp$      | $\perp$   |          |          | _                  | _        |          |
| <u> </u> | 32       |                 | _               | -        | _        | _            | <u> </u>   |                | _                 | ļ  |          |          | 82        |          |          |                 | _        | _        |              | _            | _ _     |         |       | 132        | _        | _        | 4            | 4         | _        | _        | $\dashv$           | _        |          |
| <u> </u> | 33       | $\vdash \vdash$ | +               | $\dashv$ | _        | <u> </u>     | ļ  | <u> </u>       |                   | $\vdash$   |          |          | 83        | $\vdash$ |          | dash            | _        |          | $\dashv$     | +            | +       | liiii   |       | 133        | $\dashv$ | +        | +            | 4         | 4        | _        | $\dashv$           | $\dashv$ | _        |
| -        | 34<br>35 |                 | +               | $\dashv$ | _        | $\vdash$     | -  | <del> </del> — | $\vdash$          | $\vdash$   | ł        | <u> </u> | 84<br>85  | Н        | Н        | $\vdash \vdash$ |          |          | -            | +            | +       |         |       | 134<br>135 | _        | -+       | +            | $\dashv$  | -        | _        | $\dashv$           | $\dashv$ | $\dashv$ |
| -        | 36       | $\vdash$        | +               | $\dashv$ | $\dashv$ | $\vdash$     | -  | ╁              | $\vdash$          | $\vdash$   | ł        |          | 86        | Н        | Н        | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$     | +            | +-      | ł       |       | 135        | $\dashv$ | -+       | +            | $\dashv$  | $\dashv$ |          | $\dashv$           | $\dashv$ | _        |
|          | 37       | $\dashv$        | +               | $\dashv$ | _        | _            |  | <del> </del>   | -                 | $\vdash$   |          | <b></b>  | 87        | $\vdash$ | $\vdash$ | $\vdash \dashv$ | $\dashv$ | -        | +            | +            | +       |         |       | 137        | $\dashv$ | +        | +            | $\dashv$  | -        | $\dashv$ | $\dashv$           | $\dashv$ |          |
|          | 38       | $\vdash$        | $\vdash$        | +        |          | $\vdash$     | $\vdash$   | $\vdash$       |                   | $\vdash$   | ł::::    | $\vdash$ | 88        | H        | H        | $\vdash$        | $\dashv$ | $\dashv$ | ┰            | +            | +       |         |       | 138        | +        | +        | +            | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$ |          |
|          | 39       | $\vdash$        | $\dashv$        | 7        | $\neg$   | Н            | $\vdash$   | $\vdash$       | 1                 | t  | 1        |          | 89        | Н        | Н        | $\vdash$        |          | $\neg$   | $\dashv$     | $\dashv$     | $\top$  | 1       |       | 139        | $\dashv$ | $\top$   | +            | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$           | ᅥ        | $\dashv$ |
|          | 40       |                 | $\dashv$        | $\dashv$ | $\neg$   | $\vdash$     | -  | $\vdash$       |                   | f  | 1        | <b> </b> | 90        | Н        |          | $\vdash$        | _        | _        | $\dashv$     | $\dashv$     | +       |         |       | 140        | $\neg$   | $\top$   | 十            | 寸         | $\dashv$ | 一        | $\dashv$           | +        |          |
|          | 41       |                 | 7               | 7        |          | Г            |  |                | Г                 |  | 1        |          | 91        | П        | П        | $  \neg  $      | $\neg$   | $\neg$   | $\dashv$     | $\dashv$     | 1       | 1       |       | 141        | $\neg$   | $\top$   | 十            | $\dashv$  | 寸        | 一        | $\dashv$           | $\dashv$ |          |
|          | 42       |                 |                 |          |          |              |  |                |                   |  |          |          | 92        | П        |          |                 |          |          |              |              | 1       |         |       | 142        |          | $\neg$   | $\top$       | ┪         |          |          | $\Box$             |          |          |
|          | 43       |                 |                 | I        |          |              | 匚  |                |                   |  |          |          | 93        |          |          |                 |          | $\Box$   | $\Box$       | 1            |         |         |       | 143        |          | $\Box$   | I            |           |          |          | $\Box$             |          |          |
| <u></u>  | 44       | Ш               |                 | $\Box$   | $\Box$   |              | $oxedsymbol{oxedsymbol{oxedsymbol{oxedsymbol{eta}}}$ |                | Ĺ                 | $\Box$   | <b>.</b> |          | 94        |          |          |                 | $\Box$   |          | ightharpoons | I            |         |         |       | 144        |          | $\perp$  | $\perp$      | I         | $\Box$   | $\Box$   | $oldsymbol{\perp}$ |          |          |
| L        | 45       |                 | _               | 4        | _        | L_           | <u> </u>   | Щ              | $ldsymbol{f eta}$ | <b>Ļ</b> _                                       |          |          | 95        | Щ        | <u> </u> | Ш               | ļ        | _        | _            |              |         |         |       | 145        |          |          | $\perp$      | _         | [        |          | $\dashv$           | _        |          |
| <u> </u> | 46       | <u> </u>        | _               | 4        | 4        | L            | _  | <u> </u>       | $\vdash$          | <u> </u>   |          |          | 96        | Щ        | Ш        | $\sqcup$        | _        | _        | _            | $\bot$       | $\perp$ |         |       | 146        | _        | _        | 4            | 4         | _        |          | _                  | _        |          |
| <u> </u> | 47       | $\sqcup$        | $\dashv$        | $\dashv$ | 4        |              | <u> </u>   | <b> </b>       | $\vdash$          | ├  | <b></b>  |          | 97        | Ш        | Ш        | $\sqcup$        | _        |          | $\downarrow$ | 4            | - -     |         |       | 147        | _        | $\perp$  | 4            | 4         | 4        |          | _                  | _        | =        |
| <b>—</b> | 48<br>49 | -               | $\dashv$        | +        | $\dashv$ | $\vdash$     | $\vdash$   | <del> </del>   | $\vdash$          | $\vdash$   | ł        |          | 98        | $\vdash$ | H        | $\vdash \vdash$ | -        |          |              | +            | +       |         |       | 148        | -        | -        | 4            | $\dashv$  | 4        |          | -                  | -        | _        |
| -        | 50       | -               | $\dashv$        | +        | -        | -            | $\vdash$   | $\vdash$       | $\vdash$          | ╁  | ł        |          | 99<br>100 | Н        | -        | $\dashv$        | $\dashv$ |          | +            | +            | -       |         |       | 149<br>150 | -        | +        | +            | $\dashv$  | -        |          | _                  |          |          |
|          |          | لــــا          |                 |          | 1        |              |  |                |                   | L  | j:::::   |          | IUU       | L        |          |                 |          | - 1      | . I          | - 1          | 1       | [:::::i |       | 100        | - 1      | - 1      | - 1          | - 1       |          | - 1      |                    | - 1      |          |